

Jayawanth

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EXPERIENCE - 3 YEARS

Kyndryl - spun off from IBM

Jan 2023–Dec 2023

Software Engineer – Backend & Application Modernization

Full-Time, Hybrid

- **Tech Stack** - Spring Boot, GraphQL, Kafka, Docker, CI/CD, SQL/NoSQL
- Spearheaded modernization of legacy monoliths by designing and deploying microservices using Spring Boot and GraphQL, improving maintainability and reducing API payload size by 40%
- Implemented GraphQL APIs to enable efficient data querying and reduce payload size, enhancing client responsiveness and developer flexibility.
- Led efforts in legacy application migration to cloud-native architectures, using containerization and service-based designs to modernize functionality and improve maintainability.
- Integrated with Kafka for asynchronous event-driven processing, enhancing throughput and system responsiveness in high-volume environments.
- Applied JPA/Hibernate and SQL/NoSQL databases for efficient data modeling, transaction management, and optimized query performance.
- Supported cloud enablement and performance tuning efforts, ensuring high availability, secure deployments, and optimal resource utilization across environments.
- Collaborated with architects and cross-functional teams to define technical roadmaps, implement design patterns, and support CI/CD pipelines for streamlined delivery.

IBM

Feb. 2021 – Jan 2023

Software Engineer – Backend Development

Full-Time, Hybrid

- **Tech Stack** - Spring Boot, REST APIs, IBM Cloud, Jenkins
- Contributed to the development and enhancement of IBM Spectrum LSF, a high-performance workload management platform used to schedule and manage distributed computing jobs in hybrid cloud environments.
- Designed and maintained microservices-based backend systems using Spring Boot, enabling modular, scalable support for complex job orchestration and cluster scheduling.
- Built RESTful APIs for job submission, tracking, and resource allocation, ensuring secure and efficient communication between LSF components and external applications.
- Improved provisioning speed by 40%, reduced debugging time by 50%
- Developed backend logic to interface with IBM Cloud resources, automating instance provisioning, configuration, and workload distribution across clusters.
- Worked on cloud-native integrations including containerization support (Docker) and service deployment on IBM Cloud's infrastructure, focusing on availability and system resilience.
- Implemented internal tooling for job lifecycle monitoring, log aggregation, and fault tolerance, helping improve operational efficiency and debugging turnaround times.
- Collaborated closely with QA and DevOps teams to support CI/CD pipelines, unit testing, and performance benchmarking for backend systems under heavy compute loads.

Zest Money

Nov 2020 – Feb 2021

Software Engineer

Full-Time, Hybrid

- Engineered scalable and secure RESTful APIs using Spring Boot, powering critical backend services for the ZestMoney EMI platform across payments, user onboarding, and transaction workflows.
- Designed and optimized relational database schemas (MySQL/PostgreSQL), ensuring data integrity, query performance, and effective indexing for large-scale user and transaction datasets.
- Built and consumed GraphQL APIs to enable flexible client-side queries and reduce over-fetching of data, improving API efficiency and front-end performance.
- Integrated multiple third-party services, including payment gateways, KYC/identity providers, and notification platforms, ensuring seamless data exchange and secure communication across systems.
- Deployed backend services on AWS cloud, leveraging EC2, S3, RDS, and API Gateway, with a focus on high availability, cost optimization, and auto-scaling.
- Contributed to internal microservices frameworks adhering to ZEST compliance standards, standardizing logging, error handling, and authentication across services.

TECHNICAL SKILLS

Languages: C, Python, Java

Frameworks: Spring Boot, JPA/Hibernate, Microservices, REST APIs, React, Flask, FastAPI

Developer Tools: Git, Docker, Google Cloud Platform, VS Code, IntelliJ

Databases : MySQL, Hadoop, PySpark, MongoDB, PostgreSQL, AWS

Libraries: Pandas, NumPy, Matplotlib

Scripting : UNIX, Linux, JavaScript

EDUCATION

University of North Carolina

Masters of Science in Computer Science - Data Science

Charlotte, NC

Jan. 2024 –May 2025

PROJECTS & PUBLICATIONS

Serverless AI-Powered Resume Analyzer | *AWS Lambda,API,Textract,DynamoDB,S3*

- Built a fully serverless resume analysis platform leveraging AWS Lambda, API Gateway, Textract, Comprehend, DynamoDB, and S3. Automated the extraction and NLP-based classification of resume data to streamline candidate evaluation. Ensured data security and compliance by implementing and testing cybersecurity protocols (TCP/IP, VPN, DNS) aligned with Santee Cooper's cybersecurity standards.

RFID-Enabled Bus Attendance System for Colleges | *ThingSpeak,Grafana,Java,Python,AWS S3,Firebase*

- Designed and implemented an IoT-enabled system to monitor patients remotely during quarantines, reducing unnecessary hospital visits. Integrated smart sensors and home appliances to track vital signs and automate comfort controls. Leveraged microcontrollers, cloud services, and real-time alerts to ensure proactive health monitoring and efficient resource utilization. Paper submitted for SCOPUS publication.